MITSUBISHI ELECTRIC
Changes for the Better

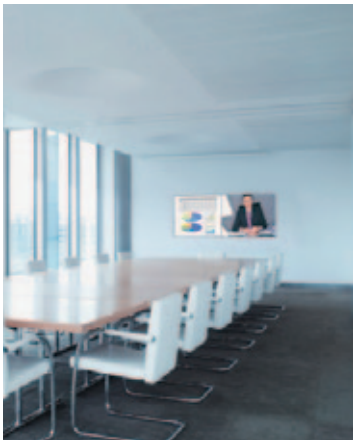
for a greener tomorrow eco Changes

XL7100U
WL7200U

Exciting, Dynamic and Vibrant…from Installation to Operation

Take your presentation to a new level

Mitsubishi Electric, a world leader in the design and manufacture of high quality, high definition presentation and display products, has introduced a new range of installation projectors that utilise LCD technology. The XL7100U (XGA) and WL7200U (WXGA) share impressive lighting capabilities, high contrast figures and several environmentally friendly features, such as long-life lamps, an inorganic long-life LCD panel and unpainted chassis. Capable of producing clear and sharp large-screen presentations in lecture theatres, auditoriums, boardrooms and conference suites, these user friendly projectors are ideal for high impact visual communication.



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Brighter display solutions

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High Image Quality

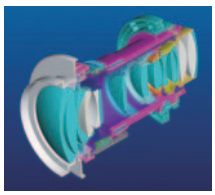
Impressive Brightness and Contrast

The XL7100U reproduces vibrant images using 6000 ANSI lumen*1 brightness at a high contrast ratio of 2000:1. Even in large meeting rooms and theatre style settings, the liquid-crystal projection system ensures clear, sharp images with every detail.

*1) WL7200U: 5500lm

High Performance Lens

The specifically designed lens comprises of 17 lenses in 13 clusters, including a high-performance ED (ultra-low dispersion) lens that is more efficient than a regular glass version. Image resolution all the way to peripheral boarders has been greatly improved.

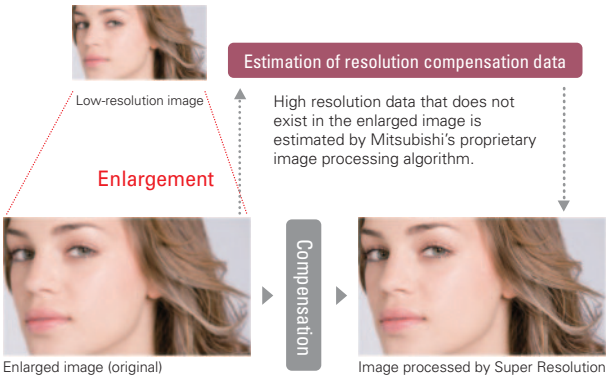


Natural Colour Matrix (NCM)

In addition to conventional red (R), green (G) and blue (B) colour gradations, the intermediate colours of yellow (Y), magenta (M) and cyan (C) can each be controlled independently. Accentuating the specified colours according to need ensures the reproduction of vivid colours and natural tones.

Super Resolution

The innovative advanced image processing algorithm is a product of Mitsubishi Electric. The technology analyses the original image for blurred components, estimates the high-resolution data not provided in the original signal and corrects the image quality. The result is a clear projection of images such as people's faces in fine detail.


Estimation of resolution compensation data
Low-resolution image
High resolution data that does not exist in the enlarged image is estimated by Mitsubishi's proprietary image processing algorithm.
Enlargement
Compensation
Enlarged image (original)
Image processed by Super Resolution

High Reliability

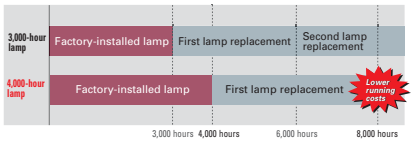
Inorganic Liquid-crystal Panel

An inorganic liquid-crystal panel is incorporated into the 7000 series, increasing the service life compared to that of a conventional organic liquid crystal panel.

Long 4000 Hour Lamp Life

Designed with a lamp temperature controlling system, the 7000 series can support an estimated lamp rating of up to 4000 hours. The long estimated lamp life makes dramatic reductions in overall cost of ownership by decreasing the frequency of lamp replacements.

Lamp Life Comparison



Lamp life specification is an estimate based on verification under proper conditions and is not the duration of the warranty. Lamp will shut-off automatically when usage reaches the specified estimated maximum lamp hours. Service life may vary widely depending on usage and operating environment and conditions, as well as users' adherence to the maintenance and cleaning procedures provided in the user manual.

Roll-up Filter

To help prevent dust from collecting on the liquid-crystal panel, the chassis design comes complete with a cartridge type filter. The unit can be set so that the filter rolls automatically every 500, 750 or 1,000 hours, or alternatively users can wind it manually.

Eco friendly

Auto Power Off

If no image signal is output for a predetermined period of time*, power is automatically turned off, reducing energy savings by decreasing needless power consumption.

*Time preset by user

Stand-by Wattage under 0.3W*

Stand-by (low) mode power consumption is less than 0.3W, offering increased energy savings and further contributing to environmental preservation.

*When in stand-by (low) mode. At this time, use of the LAN function is not possible.

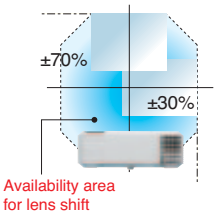
Paint-free Cabinet

As a measure to help protect the environment, eco-conscious paint-free cabinets are incorporated within the 7000 series.

Installation Flexibility

Wide-area Lens Shift

The WL7200U features a wide-area lens adjustment range of ±70% vertically and ±30% horizontally, for greater installation freedom. The zoom, focus and lens shift functions are all powered operation.
*XL7100U: ±60% vertically, +30% horizontally



Variety of Optional Lenses

Choose from four different lenses to best match the projection distance. Compared to previous lenses, each lens covers a wider range of projection ratios.

Quick Release Bayonet Mount

The bayonet mounting system incorporated offers one-touch lens removal, making it easy to change lenses after installation. Simply unscrew and remove the anti-drop cover, press down on the release button and turn the lens to remove it. Similarly, to install a lens, just insert it and turn.

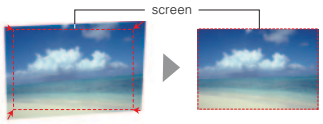
Attractive Design

The 7000 series benefits from a sleek design with a modern centre-lens, white-based chassis and a terminal cover that hides unattractive cables. The remote control signal receiving section is now located on the backside of the projector, improving remote-control operation performance when mounted on the ceiling.

Geometric Corrections

- Keystone Correction
  Trapezoidal distortion caused when the projector is not positioned directly in front of the screen is corrected in both vertical and horizontal directions.

- Cornerstone Correction
  Pixel conversion is used to correct trapezoidal and diagonal distortion that causes oblique images, ensuring the correct aspect ratio.



- Curved-surface Projection Correction
  Projectors in the series are equipped with a distortion correction function that can be used when projecting images onto a curved surface. Coordinates at the image's four corners can be adjusted during angled or stacked projection. This is extremely useful for unique applications, when users wish to project images onto special surfaces such as support pillars at event sites.

360° Projection Capability

Images can be projected over a full 360° range along the vertical axis* including reproduction on the ceiling or floor. The application possibilities are limitless.

*Excluding use in high-altitude mode.

Additional features

Network Connectivity

The 7000 series are equipped with a RJ-45 LAN terminal for remote operation. Additionally, when used with Crestron RoomView™, integrated control of up to 250 projectors including power on/off control, message display and confirmation of lamp service hours is possible. Mitsubishi Electric 7000 series are equipped with AMX Device Discovery for simplified device management and compatible with PJLink™.

The trademark of PJLink is trademark applied for registration or registered trademark in Japan, the United States, and other countries and areas.

Quiet 30dB Operation

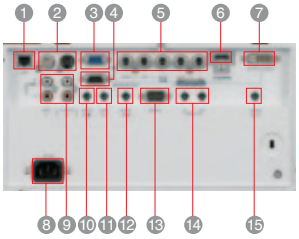
Fan noise during projector operation can be distracting during a presentation or video conference. The XL7100U and WL7200U projectors operate at a significantly low noise level of only 30dB (in low mode). As a result, presentations and conferences can be held without distracting projector noises in the background.

Additional Features:

- Direct power off
- Side access lamp replacement
- 2-Screen mode (PinP: XL7100U Split: WL7200U)
- ID-compatible Remote Control
  (set IDs for up to 63 projectors)
- Extended-distance Remote Control
  (wireless: 30m, wired: 100m)
- Test pattern
- High-altitude mode (1,500 to 2,700m)
- Virtual DICOM mode

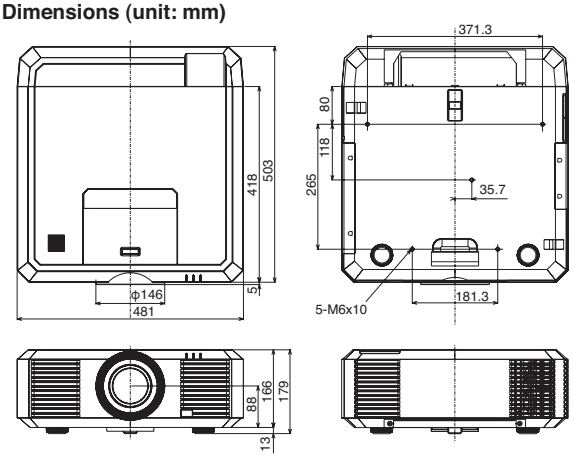
New XL7100U / WL7200U

Connection Terminals



1. LAN (RJ-45)
2. Video / S-Video
3. PC/Component video in-1
4. Monitor out
5. PC/Component video in-2
6. HDMI
7. DVI-D in (HDCP)
8. Power in (3-pin with earth terminal)
9. Audio in [RCA (L/R)]
10. Audio in-1
11. Audio out
12. Audio in-2
13. Serial RS-232C (I/O)
14. Remote in/out
15. Audio DVI-D

Dimensions (unit: mm)



* The lens focal point is the default set at the time of shipment from the factory.

Options

OL-XL7100FR	OL-XL7100SZ	OL-XL7100LZ	OL-XL7100TZ
Rear-projection Short -throw Fixed Lens	Short-throw Zoom Lens	Long-throw Zoom Lens	Telescopic-throw Zoom Lens
XL7100U 0.8 (1.6 m@100") **WL7200U** 0.8 (1.7 m@100")	**XL7100U** 1.2-1.5 (2.4-3.1 m@100") **WL7200U** 1.2-1.5 (2.5-3.3 m@100")	**XL7100U** 2.6-4.4 (5.3-9.0 m@100") **WL7200U** 2.6-4.4 (5.5-9.5 m@100")	**XL7100U** 4.3-7.4 (8.7-15.0 m@100") **WL7200U** 4.3-7.3 (9.2-15.8 m@100")

eco Changes for a greener tomorrow

Eco Changes is the Mitsubishi Electric Group's environmental statement, and expresses the Group's stance on environmental management. Through a wide range of businesses, we are helping contribute to the realization of a sustainable society.

Specifications

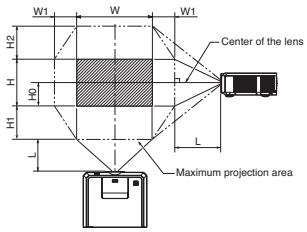
Model	XL7100U	WL7200U
Display technology	0.8" 3-LCD	0.75" 3-LCD
Resolution	1024 x 768 (Total 786,432 pixels)	1280 x 800 (Total 1,024,000 pixels)
Brightness*1 (Iris off)	6000 lm	5500 lm
Contrast ratio*1	2000 : 1 (Iris on)	
Projection lens	f = 24.0-43.2mm, F = 1.8-2.6	
Zoom / focus	Powered focus / zoom (zoom ratio 1.8 : 1)	
Picture size	40"-300" (100" = 3.0m)	40"-300" (100" = 3.1m)
Source lamp	Standard mode: 350W (Shut off time 3000 hrs) Low mode: 264W (Shut off time 4000 hrs)	
Computer compatibility	Resolution: 640 x 400 - 1920 x 1200 True: 1024 x 768, Sync-on-Green available	Resolution: 640 x 400 - 1920 x 1200 True: 1280 x 800, Sync-on-Green available
Video compatibility	NTSC / NTSC 4.43 / PAL (including PAL-M, N) / SECAM / PAL-60 Component video: 480i/p (525i/p), 576i/p (625i/p), 720p (750p 50/60Hz), 1080i (1125i 50/60Hz), 1080p (1125p 50/60Hz) SCART (RGB + 1V sync, only mini D-sub 15-pin Terminal)	
Input terminals	PC: 5 BNC x 1, mini D-sub 15-pin x 1, DVI-D (with HDCP) x 1, PC Audio: Stereo mini jack (Ø3.5mm) x 3 Video: BNC x 1, S-Video (4-pin) x 1, HDMI (Ver 1.3, with Deep Color) x 1 (Only PCM audio is supported.), Audio: RCA (L/R) x 2	
Output terminals	RGB: mini D-sub 15-pin x 1 / Audio: Stereo mini jack (ø3.5mm) x 1 (Variable out)	
Communication terminals	LAN (RJ-45): x 1 (projector control), SERIAL (in): D-sub 9-pin (male) x 1 (direct command is available.), Wired remote (in): x 1 (Ø3.5mm stereo mini jack), Wired remote (out): x 1 (Ø3.5mm stereo mini jack),	
Dimensions (W x H x D)	481 x 179 x 418mm / 18.9 x 6.8 x 16.5 inch (excluding detachable terminal cover and protrusion)	
Weight	10.5kg / 23.2lbs (excluding detachable terminal cover)	
Power supply	AC 100 - 240 V, 50/60 Hz	

*1) Compliant with ISO21118-2005.
*Varies depending on condition.
*Lamp life specification is an estimate based on verification under proper conditions and is not the duration of the warranty. Lamp will shut-off automatically when usage reaches the specified estimated maximum lamp hours. Service life may vary widely depending on usage and operating environment and conditions, as well as users' adherence to the maintenance and cleaning procedures provided in the user manual.
*HDMI, the HDMI Logo, and High-Definition Multimedia Interface are trademarks or registered trademarks of HDMI Licensing LLC in the United States and other countries.
*All brand names and product names are trademarks, registered trademarks or trade names of their respective holders.

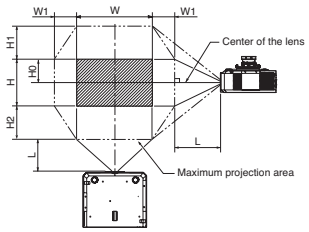
Screen Size and Projection Distance

Refer to the following table to determine the screen size and projection distance.

Front projection



Front projection, ceiling mounting



■XL7100U

Screen (XGA 4:3)						Distance from Screen				Default Height Projected Image (HO)		Movable V Position from Default Position				Movable H Position from Default Position			
Diagonal Size		Width		Height		Shortest (Wide)		Longest (Tele)				Down		Up		Down		Up	
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm	inch				cm			
40	102	32	81	24	61	46	1.2	85	2.1	−12	−30	14 ← 0 → 14		37 ← 0 → 37		10 ← 0 → 10		24 ← 0 → 24	
60	152	48	122	36	91	70	1.8	128	3.2	−18	−46	22 ← 0 → 22		55 ← 0 → 55		14 ← 0 → 14		37 ← 0 → 37	
80	203	64	163	48	122	94	2.4	171	4.3	−24	−61	29 ← 0 → 29		73 ← 0 → 73		19 ← 0 → 19		49 ← 0 → 49	
100	254	80	203	60	152	118	3.0	214	5.4	−30	−76	36 ← 0 → 36		91 ← 0 → 91		24 ← 0 → 24		61 ← 0 → 61	
150	381	120	305	90	229	177	4.5	322	8.2	−45	−114	54 ← 0 → 54		137 ← 0 → 137		36 ← 0 → 36		91 ← 0 → 91	
200	508	160	406	120	305	237	6.0	430	10.9	−60	−152	72 ← 0 → 72		183 ← 0 → 183		48 ← 0 → 48		122 ← 0 → 122	
250	635	200	508	150	381	297	7.5	538	13.7	−75	−191	90 ← 0 → 90		229 ← 0 → 229		60 ← 0 → 60		152 ← 0 → 152	
300	762	240	610	180	457	357	9.1	646	16.4	−90	−229	108← 0 →108		274 ← 0 → 274		72 ← 0 → 72		183 ← 0 → 183	

■WL7200U

Image (WXGA 16:10)						Distance from Screen				Default Height Projected Image (HO)		Movable V Position from Default Position				Movable H Position from Default Position			
Diagonal Size		Width		Height		Shortest (Wide)		Longest (Tele)				Down		Up		Down		Up	
inch	cm	inch	cm	inch	cm	inch	m	inch	m	inch	cm	inch				cm			
40	102	34	86	21	54	48	1.2	89	2.3	−11	−27	15 ← 0 → 15		38 ← 0 → 38		10 ← 0 → 10		26 ← 0 → 26	
60	152	51	129	32	81	73	1.9	134	3.4	−16	−40	22 ← 0 → 22		57 ← 0 → 57		15 ← 0 → 15		39 ← 0 → 39	
80	203	68	172	42	108	99	2.5	180	4.6	−21	−54	30 ← 0 → 30		75 ← 0 → 75		20 ← 0 → 20		52 ← 0 → 52	
100	254	85	215	53	135	124	3.1	225	5.7	−26	−67	37 ← 0 → 37		94 ← 0 → 94		25 ← 0 → 25		65 ← 0 → 65	
150	381	127	323	79	202	187	4.7	338	8.6	−40	−101	56 ← 0 → 56		141 ← 0 → 141		38 ← 0 → 38		97 ← 0 → 97	
200	508	170	431	106	269	249	6.3	452	11.5	−53	−135	74 ← 0 → 74		188 ← 0 → 188		51 ← 0 → 51		129 ← 0 → 129	
250	635	212	538	132	337	312	7.9	565	14.4	−66	−168	93 ← 0 → 93		236 ← 0 → 236		64 ← 0 → 64		162 ← 0 → 162	
300	762	254	646	159	404	375	9.5	679	17.2	−79	−202	111← 0 →111		283 ← 0 → 283		76 ← 0 → 76		194 ← 0 → 194	

* The above figures are approximate and may be slightly different from the actual measurements.

MITSUBISHI ELECTRIC EUROPE

New publication, effective December 2011 Specifications subject to change without notice.

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